

CP 2684  
PATENT APPLICATION  
DOCKET NO. 34648-415USPT  
P09713

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Ritzen et al.

Serial No.: 09/189,099

Filed: November 9, 1998

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Examiner: Y. Woldetatos

Group Art Unit: 2684

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FEB 04 2002

Technology Center 2600

For: CELLULAR COMMUNICATIONS NETWORK AND METHOD FOR  
DYNAMICALLY CHANGING THE SIZE OF A CELL DUE TO SPEECH QUALITY

Box Non-Fee Amendment  
Commissioner for Patents  
Washington, DC 20231

Dear Sir:

CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8(a)

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Box Non-Fee Amendment, Commissioner for Patents, Washington, D.C. 20231 on DECEMBER 12, 2001.

By: ELLA R. SISCO

Signature: ELLA R. Sisco

**TRANSMITTAL LETTER**

Transmitted herewith in the above-identified application are:

- 1) Reply to Office Action Under 37 C.F.R. § 1.116, Appendix A; and
- 2) Return Postcard.

FOR	NUMBER FILED - PAID	NUMBER EXTRA	RATE	CALCULATIONS
TOTAL Claims	27 -27=	0	x \$ 18.00 =	\$0.00
INDEPENDENT Claims	3 -3=	0	x \$ 84.00 =	\$0.00
MULTIPLE DEPENDENT CLAIM(S) (if applicable) N/A			1 x \$260.00 =	\$0.00
TOTAL OF ABOVE CALCULATIONS =				\$0.00
REDUCTION BY ½ FOR FILING BY SMALL ENTITY (Note 37 C.F.R. 1.9, 1.27, 1.28). IF APPLICABLE, VERIFIED STATEMENT MUST BE ATTACHED. (N/A)				\$0.00
Total =				\$0.00

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The Assistant Commissioner is hereby authorized to charge any additional fees required for this submission to Deposit Account 10-0447, reference 34648-415USPT(DGN).

Respectfully submitted,

JENKENS & GILCHRIST  
A Professional Corporation

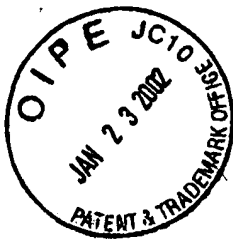


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Daniel G. Nguyen  
Reg. No. 42,933

Date: 12/12/01

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PATENT APPLICATION  
DOCKET NO. 34648-415USPT  
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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Benny Ritzèn et al.

Serial No.: 09/189,099

Filed: November 9, 1998

Title: CELLULAR COMMUNICATIONS NETWORK AND METHOD FOR  
DYNAMICALLY CHANGING THE SIZE OF A CELL DUE TO SPEECH  
QUALITY

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By: ELLA R. SISCO

*Ella R. Sisco*  
Signature

**REPLY TO OFFICE ACTION PURSUANT TO 37 C.F.R. § 1.111**

Responsive to the Office Action dated September 13, 2001, reconsideration and allowance of the present application is respectfully requested in view of the following amendments and remarks.

**AMENDMENTS**

**A. IN THE CLAIMS**

Please replace Claims 1 and 18 with the following:

1. (Twice Amended) A method for improving speech quality in a cellular communications network, said method comprising the steps of:

selecting a cell from a plurality of cells forming the cellular communications network;

evaluating a first plurality of mobile reports received from mobile terminals located within a border area of the cell;

determining, in response to evaluating the first plurality of mobile reports, a speech quality value within a portion of the cell along the border area; and

decreasing the portion of the cell when a lower threshold exceeds the speech quality value; or

increasing the portion of the cell when the speech quality value exceeds an upper threshold.

18. (Twice Amended) A cellular communications network comprising:

a cell;

a first transceiver station located within the cell;

a first plurality of mobile terminals located in a portion of said cell and within a border area of the cell, said portion includes the cell border area or a section of the cell border area; and

a controller for receiving a first plurality of mobile reports, said controller further including:

means for determining an average speech quality value of the portion of the cell along the border area in response to receiving the first plurality of mobile reports; and

means for decreasing the portion of the cell when a lower threshold exceeds the average speech quality value; or

means for increasing the portion of the cell when the average speech quality value exceeds an upper threshold.